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1 Dynamic pointer alignment: tiling and communication optimizations for parallel pointer-based computations
Xingbin Zhang, Andrew A. Chien
June 1997 **ACM SIGPLAN Notices , Proceedings of the sixth ACM SIGPLAN symposium on Principles and practice of parallel programming PPOPP '97**, Volume 32 Issue 7
Publisher: ACM Press
Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, citings, index terms

Loop tiling and communication optimization, such as message pipelining and aggregation, can achieve optimized and robust memory performance by proactively managing storage and data movement. In this paper, we generalize these techniques to pointer-based data structures (PBDSs). Our approach, *dynamic pointer alignment* (DPA), has two components. The compiler decomposes a program into non-blocking threads that operate on specific pointers and labels thread creation sites with their correspon ...

2 The project approach to simulation language comparison
F. Bradley Armstrong, Scott SumNer
December 1988 **Proceedings of the 20th conference on Winter simulation WSC '88**
Publisher: ACM Press
Full text available: pdf(1.19 MB) Additional Information: full citation, abstract, references, index terms

We present a new approach to comparing simulation software which is based on the use of a representative project. We introduce our approach and the need for it. We then demonstrate it by considering Space and Communication Group's dock-to-stores system and six simulation languages (MAP/1, SIMAN, SIMFACTORY, SLAM II, WITNESS, XCELL +). Finally, we summarize our results and provide a perspective on the work performed.

3 Variance property of discontinuous perturbation analysis
Leyuan Shi
November 1996 **Proceedings of the 28th conference on Winter simulation WSC '96**
Publisher: ACM Press, IEEE Computer Society
Full text available: pdf(464.57 KB) Additional Information: full citation, abstract, references

In recent article we presented a Discontinuous Perturbation Analysis (DPA) to deal with discontinuous sample performance functions. DPA is applicable to derivative estimation with respect to most threshold type of problems in Discrete Event Dynamic Systems

(DEDS). In this paper, we examine the variance property of DPA method through a few examples. We will demonstrate that a better variance reduction can be obtained via DPA approach even if IPA Infinitesimal Perturbation Analysis (IPA) is applic ...

4 Error repair in shift-reduce parsers

Bruce J. McKenzie, Corey Yeatman, Lorraine de Vere

July 1995 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 17 Issue 4

Publisher: ACM Press

Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Local error repair of strings during CFG parsing requires the insertion and deletion of symbols in the region of a syntax error to produce a string that is error free. Rather than precalculating tables at parser generation time to assist in finding such repairs, this article shows how such repairs can be found during shift-reduce parsing by using the parsing tables themselves. This results in a substantial space saving over methods that require precalculated tables. Furthermore, the article ...

Keywords: Bison, Yacc, error recovery, least cost, shift-reduce

5 Polymorphism measures for early risk prediction

Saïda Benlarbi, Walcelio L. Melo

May 1999 **Proceedings of the 21st international conference on Software engineering ICSE '99**

Publisher: IEEE Computer Society Press

Full text available: pdf(1.18 MB) Additional Information: full citation, references, citings, index terms

Keywords: C++ programming language, metrics, object-oriented design, polymorphism, software risk prediction

6 A comparison of perturbation analysis techniques

Michael C. Fu, Jian-Qiang Hu

November 1996 **Proceedings of the 28th conference on Winter simulation WSC '96**

Publisher: ACM Press, IEEE Computer Society

Full text available: pdf(499.22 KB) Additional Information: full citation, abstract, references

Perturbation analysis (PA) is a technique for estimating gradients of performance measures, particularly applicable to the simulation of discrete-event systems. Over the past two decades, various "versions" have been developed. In this paper, we compare and contrast some of these perturbation analysis techniques by applying them to a simple example. This example also serves to highlight the issue of process representation that can play a very crucial role in the application of perturbation analy ...

7 Scheduling arithmetic and load operations in parallel with no spilling

D. Bernstein, J. M. Jaffe, M. Rodeh

October 1987 **Proceedings of the 14th ACM SIGACT-SIGPLAN symposium on Principles of programming languages POPL '87**

Publisher: ACM Press

Full text available: pdf(979.14 KB) Additional Information: full citation, abstract, references, citings, index terms

We consider a machine model in which load operations can be performed in parallel with

arithmetic operations by two separate functional units. For this model, the evaluation of a set of expression trees is discussed. A dynamic programming algorithm to produce an approximate solution is described and analyzed. For binary trees its worse case cost is at most 9.1% worse than the optimal cost.

8 A practical approach to static signal electromigration analysis

Nagaraj NS, Frank Cano, Haldun Haznedar, Duane Young

May 1998 **Proceedings of the 35th annual conference on Design automation DAC '98**

Publisher: ACM Press

Full text available: pdf(189.87 KB) Additional Information: full citation, abstract, references, citings, index terms

It is commonly thought that sweep-back effects would make electromigration (EM) a non-issue in signal lines. However this is only the case when the shape of the positive and negative current pulses are closely matched. Moreover, as performance pressures increase, the peak current values are exceeding the range for which electromigration models are valid. Thus, during the design of TI's TMS320c6201 DSP chip, it was determined that limits needed to be placed on the current densities in signal ...

9 Distributed data access in AC

William W. Carlson, Jesse M. Draper

August 1995 **ACM SIGPLAN Notices , Proceedings of the fifth ACM SIGPLAN symposium on Principles and practice of parallel programming PPOPP '95**, Volume 30 Issue 8

Publisher: ACM Press

Full text available: pdf(873.12 KB) Additional Information: full citation, abstract, references, citings, index terms

We have modified the C language to support a programming model based on a shared address space with physically distributed memory. With this model users can write programs in which the nodes of a massively parallel processor can access remote memory without message passing. AC provides support for distributed arrays as well as pointers to distributed data. Simple array references and pointer dereferencing are sufficient to generate low-overhead remote reads and writes. We have implemented t ...

10 Design process analysis: A measurement and analysis technique

Kenneth D. Yates

June 1980 **Proceedings of the 17th conference on Design automation DAC '80**

Publisher: ACM Press

Full text available: pdf(156.41 KB) Additional Information: full citation, abstract, index terms

The range of services provided by design automation computing centers covers a broad spectrum. At one end of this spectrum is the center which provides pure computation power only. It is the user's responsibility to select, install, and tune the applications as well as to debug the resultant output. At the other end, it is the turnkey center which provides a near total service, relegating the user to job selection from a fixed set of installed applications with which to accomplish the desig ...

11 Graphic analysis and planning of electrical distribution systems

Gwendolyn L. Fuehring

July 1980 **ACM SIGGRAPH Computer Graphics , Proceedings of the 7th annual conference on Computer graphics and interactive techniques SIGGRAPH '80**, Volume 14 Issue 3

Publisher: ACM Press

Full text available: pdf(359.31 KB) Additional Information: full citation, abstract, references, index terms

Techniques for computer modeling of electrical distribution systems have been available to

utility engineers for years. The formation of a distribution data base can be a huge task because of the enormous number of components in a utility's distribution system. The continuous changes that occur in a distribution system make data base maintenance difficult. Application of computer graphics to distribution engineering simplifies data base formation and maintenance and aids in interpreting the ...

12 A survey of current methods for the elimination of initialization bias in digital simulation

Delbert L. Kimbler, Barry D. Knight

June 1987 **Proceedings of the 20th annual symposium on Simulation ANSS '87**

Publisher: IEEE Computer Society Press

Full text available: pdf(578.96 KB) Additional Information: full citation, abstract, references, index terms

Initialization bias in digital simulation typically arises in estimating a steady-state statistic from replicated data. While methods have been developed to avoid this bias, such as batch means, the problem remains in some simulation contexts. This report surveys current methods for dealing with this bias and assesses their effectiveness and usefulness.

13 MDS: An improved total system for firmware development

Kazutoshi Takahashi, Etsuo Takahashi, Tatsushige Bito, Toshinori Aoyama, Akihiko Yamada

October 1982 **ACM SIGMICRO Newsletter , Proceedings of the 15th annual workshop on Microprogramming MICRO 15**, Volume 13 Issue 4

Publisher: IEEE Press, ACM Press

Full text available: pdf(499.11 KB) Additional Information: full citation, abstract, references, citings, index terms

A general purpose, total system MDS1,2 (Microprogramming Design-support System) has been developed to hasten the introduction of various kinds of firmware over the widest possible range of computer from the largest to the smallest (microcomputer). Not only many types of assembly language but also machine dependent high-level languages can be used and physical address assignment can be performed automatically with MDS. This paper describes an overvi ...

14 The birth of the Internet printing protocol (IPP)

Carl-Uno Manros

December 1998 **StandardView**, Volume 6 Issue 4

Publisher: ACM Press

Full text available: pdf(71.85 KB) Additional Information: full citation

15 Ambiguity resolution in the human syntactic parser: an experimental study

Howard S. Kurtzman

July 1984 **Proceedings of the 10th international conference on Computational linguistics , Proceedings of the 22nd annual meeting on Association for Computational Linguistics**

Publisher: Association for Computational Linguistics

Full text available: pdf(440.45 KB) Publisher Site Additional Information: full citation, abstract, references

Models of the human syntactic parsing mechanism can be classified according to the ways in which they operate upon ambiguous input. Each mode of operation carries particular requirements concerning such basic computational characteristics of the parser as its storage capacities and the scheduling of its processes, and so specifying which mode is actually embodied in human parsing is a useful approach to determining the functional organization of the human parser. In Section 1, a preliminary taxo ...

16 Fault classes and error detection capability of specification-based testing

D. Richard Kuhn

October 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 8 Issue 4

Publisher: ACM Press

Full text available: pdf(124.88 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Some varieties of specification-based testing rely upon methods for generating test cases from predicates in a software specification. These methods derive various test conditions from logic expressions, with the aim of detecting different types of faults. Some authors have presented empirical results on the ability of specification-based test generation methods to detect failures. This article describes a method for cokmputing the conditions that must be covered by a test set for the test ...

Keywords: testing

17 ALGORITHM 652: HOMPACK: a suite of codes for globally convergent homotopy algorithms

Layne T. Watson, Stephen C. Billups, Alexander P. Morgan

September 1987 **ACM Transactions on Mathematical Software (TOMS)**, Volume 13 Issue 3

Publisher: ACM Press

Full text available: pdf(2.10 MB) Additional Information: full citation, abstract, references, citings, index terms

There are algorithms for finding zeros or fixed points of nonlinear systems of equations that are globally convergent for almost all starting points, i.e., with probability one. The essence of all such algorithms is the construction of an appropriate homotopy map and then tracking some smooth curve in the zero set of this homotopy map. HOMPACK provides three qualitatively different algorithms for tracking the homotopy zero curve: ordinary differential equation-based, normal flow, and augmen ...

Keywords: Chow-Yorke algorithm, continuation method, curve tracking, fixed point, globally convergent, homotopy methods, nonlinear systems, polynomial systems, zero

18 Requirements and design goals for an Internet printing protocol

F. D. Wright

December 1998 **StandardView**, Volume 6 Issue 4

Publisher: ACM Press

Full text available: pdf(85.77 KB) Additional Information: full citation, references

19 Polynomial uniform convergence and polynomial-sample learnability

Alberto Bertoni, Paola Campadelli, Anna Morpurgo, Sandra Panizza

July 1992 **Proceedings of the fifth annual workshop on Computational learning theory COLT '92**

Publisher: ACM Press

Full text available: pdf(612.52 KB) Additional Information: full citation, abstract, references, index terms

In this work we study the relationship between PAC learning and the property of uniform convergence. We define the concept of polynomial uniform convergence of relative frequencies to probabilities in the distribution-dependent context. Let Xn = (0,1)n, let Pn be a probability distribution on X

20 Integrated medical analysis system

Susan L. Mabry, Samuel L. Rodriquez, James D. Heffernan

December 1997 **Proceedings of the 29th conference on Winter simulation WSC '97**

Publisher: ACM Press, IEEE Computer Society

Full text available: pdf(510.63 KB) Additional Information: full citation, references, index terms

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21 Draft Proposed: American National Standard—Graphical Kernel System

Technical Committee X3H3 - Computer Graphics
February 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue SI
Publisher: ACM Press
Full text available: pdf(16.07 MB) Additional Information: full citation

22 Type-raising and directionality in combinatory grammar

Mark Steedman
June 1991 **Proceedings of the 29th annual meeting on Association for Computational Linguistics**
Publisher: Association for Computational Linguistics
Full text available: pdf(605.94 KB) Publisher Site
Additional Information: full citation, abstract, references, citings

The form of rules in combinatory categorial grammars (CCG) is constrained by three principles, called "adjacency", "consistency" and "inheritance". These principles have been claimed elsewhere to constrain the combinatory rules of composition and type raising in such a way as to make certain linguistic universals concerning word order under coordination follow immediately. The present paper shows that the three principles have a natural expression in a unification-based interpretation of CCG in ...

23 User cube: a taxonomy of end users

William W. Cotterman, Kuldeep Kumar
November 1989 **Communications of the ACM**, Volume 32 Issue 11
Publisher: ACM Press
Full text available: pdf(952.69 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The user cube, a precise and comprehensive graphical taxonomy designed to provide a common base for understanding and classifying end users in organizations, can be used to assess the risks associated with end-user computing.

24 Structural semantics for polymorphic data types (preliminary report)

Daniel Leivant
January 1983 **Proceedings of the 10th ACM SIGACT-SIGPLAN symposium on**

Principles of programming languages POPL '83

Publisher: ACM Press

Full text available: pdf(788.53 KB) Additional Information: full citation, abstract, references, citings

The semantic modeling of data types has been the subject of increased interest over the last few years, enhanced by the development of applicative languages such as Edinburgh's ML and HOPE, by the need for flexible highly structured languages that would nonetheless be amenable to verification, and by ongoing inquiries on polymorphism in programming languages. In particular, there has been a growing interest in generic type structures such as the Reynolds-Girard discipline of full poly ...

25 ACM SIGOIS worldwide membership directory

April 1995 **ACM SIGOIS Bulletin**, Volume 15 Issue SI

Publisher: ACM Press

Full text available: pdf(4.34 MB) Additional Information: full citation, index terms

26 Algorithm 555: Chow-Yorke Algorithm for Fixed Points or Zeros of C2 Maps [C5]

Layne T. Watson, Dan Fenner

June 1980 **ACM Transactions on Mathematical Software (TOMS)**, Volume 6 Issue 2

Publisher: ACM Press

Full text available: pdf(428.69 KB) Additional Information: full citation, references, citings, index terms

27 Automated revsion of GIS databases

Volker Walter, Dieter Fritsch

November 2000 **Proceedings of the 8th ACM international symposium on Advances in geographic information systems GIS '00**

Publisher: ACM Press

Full text available: pdf(703.89 KB) Additional Information: full citation, abstract, index terms

Digital spatial data are underlying strong temporal changes. The typical approach of updating these changes is to check the data manually for their correctness by superimposing them on up-to-date orthophotos. The update cycles of large data sets are in the range of several years. At present shorter update cycles are unrealizable for two reasons. The manual inspection of the data is very cost- and time-consuming and aerial photographs for large areas are very often not available in the needed ...

Keywords: ATKIS, GIS, classification, matching, remote sensing, update

28 &lgr;-flow (poster): a parallel functional synchronous dataflow language

Guilhem de Wailly

August 1997 **ACM SIGPLAN Notices , Proceedings of the second ACM SIGPLAN international conference on Functional programming ICFP '97**, Volume 32 Issue 8

Publisher: ACM Press

Full text available: pdf(122.34 KB) Additional Information: full citation, index terms

29 Proving probabilistic correctness statements: the case of Rabin's algorithm for mutual exclusion

Isaac Saias

October 1992 **Proceedings of the eleventh annual ACM symposium on Principles of distributed computing PODC '92**

Publisher: ACM Press

Full text available: pdf(1.22 MB) Additional Information: full citation, abstract, references, citings, index terms

The correctness of most randomized distributed algorithms is expressed by a statement of the form "some predicate of the executions holds with high probability, regardless of the order in which actions are scheduled". In this paper, we present a general methodology to prove correctness statements of such randomized algorithms. Specifically, we show how to prove such statements by a series of refinements, which terminate in a statement independent of the schedule. To demonstrate ...

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IEEE CNF	IEEE Conference Proceeding
IET CNF	IET Conference Proceeding
IEEE STD	IEEE Standard

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22. **A 45-Mbit/s CMOS VLSI digital phase aligner**
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23. **Spectrum resource allocation for wireless packet access with application to advanced cellul**
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